

FS-100 Series Ultrasonic Flow Meters

Product Description

The new Pyxis FS-100 series are state-of-the-art ultrasonic flowmeters that operate on the principle of transit time difference with a measurement range of 0 – 3,000 mL/min and resolution of 1mL. In this flow measurement method, the propagation speed of ultrasonic waves downstream is faster than upstream, and the transit time difference is directly proportional to the flow rate.

The FS-100 series flow meter is perfectly suited for flow measurement and is offered in two liquid end materials of construction, for standard water and highly corrosive aqueous solution metering applications. The sensors advanced PCB design offers built-in temperature compensation to eliminate the effect of temperature with instantaneous, accumulated, and controlled water flow based on user setpoint within the sensor itself.

The FS-100 series flow meter is powered by a 24 VDC/1 W power supply and provides both 4–20 mA and RS-485 Modbus output signals for connection to any OEM controller, PLC or DCS.



Features

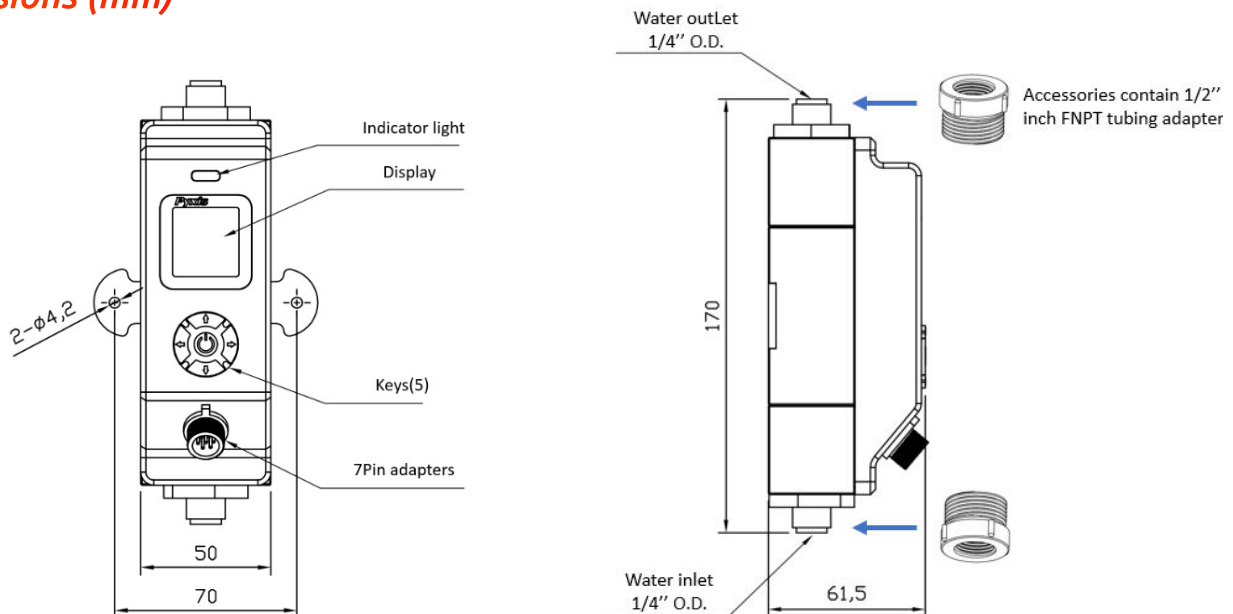
- *Real-Time Flow Rate Trend Chart*
- *Dual Flow Meter Signal Outputs for Valve Control & Flow Rate: Isolate 4-20mA & RS-485*
- *Ultrasonic Flow Meter with Local Display Capable of 0–3,000mL/min Measurement*
- *Built-In Temperature Sensor automatically compensates the Effect of Temperature on Flow Rate*
- *Monitor & Display Instantaneous Flow Rate & Accumulated Volume*
- *Integrated User Defined Flow Rate setpoint with PID Output Control for 4-20mA Regulating Valve*
- *Large Color LED Indicator for Operational State Indication*
- *CPVC Liquid End for Common Water Flow Measurement Applications (FS-100)*
- *PPS Plastic / GF Polymer Liquid End for Highly Corrosive Water Flow Measurement Applications (FS-101)*

Specifications

Item	FS-100	FS-101
P/N	54200	58542
Wet End Material	UPVC	Ryton PPS* + GF Polymer
Supported Fluid	Liquids (Water)	Corrosive Aqueous Solution
Fluid Temp.	4~49 °C (40~120 °F)	
Inlet Pressure	7.25~100psi (0.05~0.689MPa)	
Inlet/Outlet	1/4in OD and 1/2in FNPT	
Flow Path Inner Dia.	5mm	
Rated Flow Range	0~3,000mL/min	
Resolution	1mL/min	
MAX Error	±1% of the Value	
Display	1.44" Color 128x128 Resolution	
Analog Outputs	#1 4-20mA for Flow Rate, #2 4-20mA for Regulating Valve	
Digital Outputs	RS-485	
Power Supply	24V DC, 1W	
Operation Temp.	32~122 °F (0~50 °C)	
Storage Temp.	-4~158 °F (-20~70 °C)	
Dimensions (HxWxD)	170mm H x 50mm W x 61.5mm D	
Weight	~600g	
Humidity	5~95%	
Protection	IP65	
Regulation	CE/RoHS	

**Important Note - Refer to Ryton PPS chemical compatibility prior to use for measurement of any chemical or corrosive aqueous solution.*

Dimensions (mm)



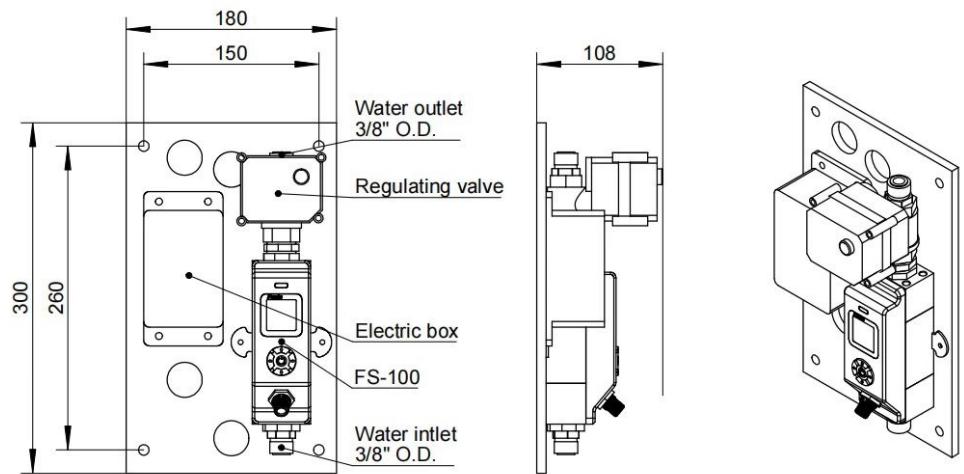


Nano-Flow™ Control Module

Sold separately, the Pyxis Nano-Flow Control Module is a stand-alone water flow measurement and control solution designed for use in critical cooling and process-water sample flow applications. This unique platform provides precise flow measurement and regulation and may be installed upstream of inline sensors in water systems that are subject to pressure and flow variation challenges.

The Nano-Flow module is offered in a convenient and easy to integrate micro-panel mounted format for rapid installation, setup and maintenance. The micro-panel design is equipped with the Pyxis FS-100 ultrasonic flowmeter with display, which directly controls a pre-mounted regulating valve through a simple to program user interface.

Item	P/N	Description
Nano-Flow Module	21329	FS-100 Ultrasonic Flow Meter + Regulating Valve



Order Information

FS-100 (Ultrasonic Flow Meter 0–3,000mL/min)	54200
FS-101 (Ultrasonic Flow Meter for Corrosive Aqueous Solution)	58542
Nano-Flow™ Control Module	21329
CE-FE-4.9 (Flying Lead Cable with Female 7-Pin 1.5m)	21329
MA-AC-7US (Power Outlet Adapter w/ USA/Type-A)	26398
MA-AC-7EU (Power Outlet Adapter w/ EU/DIN plug)	28787

Part Number